

Title (en)

LARGE SCALE STABLE FIELD EMITTER FOR HIGH CURRENT APPLICATIONS

Title (de)

GROSSFLÄCHIGER STABILER FELDEMITTER FÜR HOCHSTROMANWENDUNGEN

Title (fr)

ÉMETTEUR DE CHAMP STABLE À GRANDE ÉCHELLE POUR APPLICATIONS À COURANT FORT

Publication

**EP 3776621 A1 20210217 (EN)**

Application

**EP 19781384 A 20190404**

Priority

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Abstract (en)

[origin: WO2019191801A1] The present invention relates to large area field emission devices based on the incorporation of macroscopic, microscopic, and nanoscopic field enhancement features and a designed forced current sharing matrix layer to enable a stable high-current density long-life field emission device. The present invention pertains to a wide range of field emission sources and is not limited to a specific field emission technology. The invention is described as an X-ray electron source but can be applied to any application requiring a high current density electron source.

IPC 8 full level

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